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1 [Information Retrieval: Query-free news search](#)

Monika Henzinger, Bay-Wei Chang, Brian Milch, Sergey Brin

 May 2003 **Proceedings of the 12th international conference on World Wide Web WWW '03**

Publisher: ACM Press

 Full text available: [pdf\(126.70 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many daily activities present information in the form of a stream of text, and often people can benefit from additional information on the topic discussed. TV broadcast news can be treated as one such stream of text; in this paper we discuss finding news articles on the web that are relevant to news currently being broadcast. We evaluated a variety of algorithms for this problem, looking at the impact of inverse document frequency, stemming, compounds, history, and query length on the relevance a ...

Keywords: query-free search, web information retrieval

2 [INFOMOD: a knowledge-based moderator for electronic mail help lists](#)

Robert J. Hall

 November 1996 **Proceedings of the fifth international conference on Information and knowledge management CIKM '96**

Publisher: ACM Press

 Full text available: [pdf\(910.37 KB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [Defining grief play in MMORPGs: player and developer perceptions](#)

Chek Yang Foo, Elina M. I. Koivisto

 September 2004 **Proceedings of the 2004 ACM SIGCHI International Conference on Advances in computer entertainment technology ACE '04**

Publisher: ACM Press


 Full text available: [pdf\(107.78 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In current literature, grief play in Massively Multi-player Online Role-Playing Games (MMORPGs) refers to play styles where a player intentionally disrupts the gaming experience of other players. In our study, we have discovered that player experiences may be disrupted by others unintentionally, and under certain circumstances, some will believe they have been grieved. This paper explores the meaning of grief play, and suggests that

some forms of unintentional grief play be called greed play. Th ...



Keywords: MMORPG, avatars, game design, greed play, grief play, harassment, power imposition, role-play, scamming

- 4 Text summarization: Automated text summarization and the SUMMARIST system 
Eduard Hovy, Chin-Yew Lin
October 1998 **Proceedings of a workshop on held at Baltimore, Maryland: October 13-15, 1998**


Publisher: Association for Computational Linguistics

Full text available:  pdf (1.40 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper consists of three parts: a preliminary typology of summaries in general; a description of the current and planned modules and performance of the SUMMARIST automated multilingual text summarization system being built at ISI, and a discussion of three methods to evaluate summaries.



- 5 Information retrieval session 5: general retrieval issues II: Multi-resolution disambiguation of term occurrences 
 Einat Amitay, Rani Nelken, Wayne Niblack, Ron Sivan, Aya Soffer
November 2003 **Proceedings of the twelfth international conference on Information and knowledge management CIKM '03**

Publisher: ACM Press


Full text available:  pdf (371.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe a system for extracting mentions of terms such as company and product names, in a large and noisy corpus of documents, such as the World Wide Web. Since natural language terms are highly ambiguous, a significant challenge in this task is disambiguating which occurrences of each term are truly related to the right meaning, and which are not. We describe our approach for disambiguation, and show that it achieves very high accuracy with only limited training. This serves as a necessary ...

Keywords: disambiguation, information retrieval, natural language processing, text mining


- 6 What does aspect-oriented programming mean to Cobol? 
 Ralf Lämmel, Kris De Schutter
March 2005 **Proceedings of the 4th international conference on Aspect-oriented software development AOSD '05**

Publisher: ACM Press

Full text available:  pdf (172.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We study AOP in the context of business programming with Cobol. We face the following questions: What are join points in Cobol programs? What is advice? Does classic Cobol provide any constructs that hint at AOP? (Yes!) What are typical crosscutting concerns in the Cobol world? How do otherwise typical crosscutting concerns make sense for Cobol? How does AOP for Cobol align with classic re-engineering transformations for Cobol? We deliver an AOP language design for Cobol. Codename: AspectCobol. ...

Keywords: Cobol, aspect-oriented programming, business programming

- 7 Video Retrieval and Browsing: Learning video browsing behavior and its application 

in the generation of video previews

Tanveer Syeda-Mahmood, Dulce Ponceleon

October 2001 **Proceedings of the ninth ACM international conference on Multimedia
MULTIMEDIA '01****Publisher:** ACM Press

Full text available: pdf (1.86 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With more and more streaming media servers becoming commonplace, streaming video has now become a popular medium of instruction, advertisement, and entertainment. With such prevalence comes a new challenge to the servers: Can they track browsing behavior of users to determine what interest users? Learning this information is potentially valuable not only for improved customer tracking and context-sensitive e-commerce, but also in the generation of fast previews of videos for easy pre-downloads. ...

Keywords: audio, browsing behavior, interesting content, learning, topics, video previews

8

Poster session 2: annotation, summarization, and visualization: Automatically
selecting shots for action movie trailers

Alan F. Smeaton, Bart Lehane, Noel E. O'Connor, Conor Brady, Gary Craig

October 2006 **Proceedings of the 8th ACM international workshop on Multimedia
information retrieval MIR '06****Publisher:** ACM Press

Full text available: pdf (424.50 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Movie trailers, or previews, are an important method of advertising movies. They are extensively shown before movies in cinemas, as well as on television and increasingly, over the Internet. Making a trailer is a creative process, in which a number of shots from a movie are selected in order to entice a viewer in to paying to see the full movie. Thus, the creation of these trailers is an integral part in the promotion of a movie. Action movies in particular rely on trailers as a form of advertis ...

Keywords: machine learning, movie trailers, video analysis

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1 [Finding application errors and security flaws using PQL: a program query language](#)



Michael Martin, Benjamin Livshits, Monica S. Lam

 October 2005 **ACM SIGPLAN Notices , Proceedings of the 20th annual ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '05**, Volume 40 Issue 10

Publisher: ACM Press

 Full text available: [pdf\(317.30 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A number of effective error detection tools have been built in recent years to check if a program conforms to certain design rules. An important class of design rules deals with sequences of events associated with a set of related objects. This paper presents a language called PQL (Program Query Language) that allows programmers to express such questions easily in an application-specific context. A query looks like a code excerpt corresponding to the shortest amount of code that would violate a ...

Keywords: SQL injection, bug finding, pattern matching, program traces, resource leaks, web applications

2 [Real-time shading](#)



Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

 August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

 Full text available: [pdf\(7.39 MB\)](#)

 Additional Information: [full citation](#), [abstract](#)


Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabilities ...

3 [Improving the static analysis of embedded languages via partial evaluation](#)



David Herman, Philippe Meunier


 September 2004 **ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN international conference on Functional programming ICFP '04**, Volume 39 Issue 9

Publisher: ACM PressFull text available:  pdf(399.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Programs in embedded languages contain invariants that are not automatically detected or enforced by their host language. We show how to use macros to easily implement partial evaluation of embedded interpreters in order to capture invariants encoded in embedded programs and render them explicit in the terms of their host language. We demonstrate the effectiveness of this technique in improving the results of a value flow analysis.

Keywords: embedded languages, macros, partial evaluation, value flow analysis**4** SLAs and QoS: Preference-based selection of highly configurable web services


Steffen Lamparter, Anupriya Ankolekar, Rudi Studer, Stephan Grimm

May 2007 **Proceedings of the 16th international conference on World Wide Web WWW '07****Publisher:** ACM PressFull text available:  pdf(270.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A key challenge for dynamic Web service selection is that Web services are typically highly configurable and service requesters often have dynamic preferences on service configurations. Current approaches, such as WS-Agreement, describe Web services by enumerating the various possible service configurations, an inefficient approach when dealing with numerous service attributes with large value spaces. We model Web service configurations and associated prices and preferences more compactly using ...

Keywords: customisation, preference-based service selection, web services**5** Spoken dialogue technology: enabling the conversational user interface


Michael F. McTear

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1**Publisher:** ACM PressFull text available:  pdf(987.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerce ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis**6** Research session: DB and IR #1: An efficient and versatile query engine for TopX search

Martin Theobald, Ralf Schenkel, Gerhard Weikum

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05****Publisher:** VLDB EndowmentFull text available:  pdf(442.21 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a novel engine, coined *TopX*, for efficient ranked retrieval of XML documents over semistructured but nonschematic data collections. The algorithm follows

the paradigm of threshold algorithms for top-k query processing with a focus on inexpensive sequential accesses to index lists and only a few judiciously scheduled random accesses. The difficulties in applying the existing top-k algorithms to XML data lie in 1) the need to consider scores for XML elements while aggregating ...

7 Compiler construction: an advanced course

F. L. Bauer, F. L. De Remer, M. Griffiths, U. Hill, J. J. Horning, C. H. A. Koster, W. M. McKeeman, P. C. Poole, W. M. Waite, G. Goos, J. Hartmanis
January 1974 Book

Publisher: Springer-Verlag New York, Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

The Advanced Course took place from March 4 to 15, 1974 and was organized by the Mathematical Institute of the Technical University of Munich and the Leibniz Computing Center of the Bavarian Academy of Sciences, in co-operation with the European Communities, sponsored by the Ministry for Research and Technology of the Federal Republic of Germany and by the European Research Office, London.

8 Facial modeling and animation

Jörg Haber, Demetri Terzopoulos

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  [pdf \(18.15 MB\)](#) Additional Information: [full citation](#), [abstract](#)

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

9 Natural language question-answering systems: 1969

Robert F. Simmons

January 1970 **Communications of the ACM**, Volume 13 Issue 1

Publisher: ACM Press

Full text available:  [pdf \(2.15 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Recent experiments in programming natural language question-answering systems are reviewed to summarize the methods that have been developed for syntactic, semantic, and logical analysis of English strings. It is concluded that at least minimally effective techniques have been devised for answering questions from natural language subsets in small scale experimental systems and that a useful paradigm has evolved to guide research efforts in the field. Current approaches to semantic analysis ...

Keywords: artificial intelligence, fact retrieval, language processing, natural language, question-answering system, semantics

10 Artificial intelligence

Elaine Rich

January 1983 Book

Publisher: McGraw-Hill, Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [review](#)

The goal of this book is to provide programmers and computer scientists with a readable introduction to the problems and techniques of artificial intelligence (A.I.). The book can be used either as a text for a course on A.I. or as a self-study guide for computer professionals who want to learn what A.I. is all about.

The book was designed as the text for a one-semester, introductory graduate course in A.I. In such a course, it should be possible to cover all of the material in the boo ...

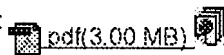
11 Evaluating message understanding systems: an analysis of the third message understanding conference (MUC-3)

Nancy Chinchor, David D. Lewis, Lynette Hirschman

September 1993 **Computational Linguistics**, Volume 19 Issue 3

Publisher: MIT Press

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

[Publisher Site](#)

This paper describes and analyzes the results of the Third Message Understanding Conference (MUC-3). It reviews the purpose, history, and methodology of the conference, summarizes the participating systems, discusses issues of measuring system effectiveness, describes the linguistic phenomena tests, and provides a critical look at the evaluation in terms of the lessons learned. One of the common problems with evaluations is that the statistical significance of the results is unknown. In the disc ...

12 The SIFT information dissemination system

Tak W. Yan, Hector Garcia-Molina

December 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 4

Publisher: ACM Press

Full text available: pdf(220.77 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Information dissemination is a powerful mechanism for finding information in wide-area environments. An information dissemination server accepts long-term user queries, collects new documents from information sources, matches the documents against the queries, and continuously updates the users with relevant information. This paper is a retrospective of the Stanford Information Filtering Service (SIFT), a system that as of April 1996 was processing over 40,000 worldwide subscriptions and ov ...

Keywords: Boolean queries, dissemination, filtering, indexing, vector space queries.

13 Safety and security: Using positive tainting and syntax-aware evaluation to counter SQL injection attacks

William G. J. Halfond, Alessandro Orso, Panagiotis Manolios

November 2006 **Proceedings of the 14th ACM SIGSOFT international symposium on Foundations of software engineering SIGSOFT '06/FSE-14**


Publisher: ACM Press

Full text available: pdf(691.16 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

SQL injection attacks pose a serious threat to the security of Web applications because they can give attackers unrestricted access to databases that contain sensitive information. In this paper, we propose a new, highly automated approach for protecting existing Web applications against SQL injection. Our approach has both conceptual and practical advantages over most existing techniques. From the conceptual standpoint, the approach is based on the novel idea of positive tainting and the concep ...

Keywords: SQL injection, dynamic tainting, runtime monitoring

- 14 Retrieval performance in Ferret a conceptual information retrieval system
 Michael L. Mauldin
 September 1991 **Proceedings of the 14th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '91**

Publisher: ACM Press

Full text available:  [pdf\(831.33 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 15 MIMIC: an adaptive mixed initiative spoken dialogue system for information queries
 Jennifer Chu-Carroll
 April 2000 **Proceedings of the sixth conference on Applied natural language processing**

Publisher: Morgan Kaufmann Publishers Inc.

Full text available:  [pdf\(774.53 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

 [Publisher Site](#)

This paper describes MIMIC, an adaptive mixed initiative spoken dialogue system that provides movie showtime information. MIMIC improves upon previous dialogue systems in two respects. First, it employs initiative-oriented strategy adaptation to automatically adapt response generation strategies based on the cumulative effect of information dynamically extracted from user utterances during the dialogue. Second, MIMIC's dialogue management architecture decouples its initiative module from the goal ...


- 16 Exploiting early sorting and early partitioning for decision support query processing
 J. Claussen, A. Kemper, D. Kossmann, C. Wiesner
 December 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(478.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Decision support queries typically involve several joins, a grouping with aggregation, and/or sorting of the result tuples. We propose two new classes of query evaluation algorithms that can be used to speed up the execution of such queries. The algorithms are based on (1) *early sorting* and (2) *early partitioning*— or a combination of both. The idea is to push the sorting and/or the partitioning to the leaves, i.e., the base relations, of the query evaluation plans (QEPs) and ...


Keywords: Decision Support Systems, Early sorting and partitioning, Hash joins and hash teams, Performance evaluation, Query processing and optimization

- 17 Industrial and practical experience track paper session 1: Ranking definitions with supervised learning methods


Jun Xu, Yunbo Cao, Hang Li, Min Zhao

May 2005 **Special interest tracks and posters of the 14th international conference on World Wide Web WWW '05**

Publisher: ACM Press

Full text available:  [pdf\(328.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper is concerned with the problem of definition search. Specifically, given a term, we are to retrieve definitional excerpts of the term and rank the extracted excerpts according to their likelihood of being good definitions. This is in contrast to the traditional approaches of either generating a single combined definition or simply outputting all

retrieved definitions. Definition ranking is essential for the task. Methods for performing definition ranking are proposed in this paper, whi ...

Keywords: classification, ordinal regression, search of definitions, text mining, web mining, web search

18 Dynamic labeling schemes for ordered XML based on type information

Damien K. Fisher, Franky Lam, William M. Shui, Raymond K. Wong

January 2006 **Proceedings of the 17th Australasian Database Conference - Volume 49 ADC '06**

Publisher: Australian Computer Society, Inc.

Full text available:  [pdf\(184.30 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the increasing popularity of XML, there arises the need for managing and querying information in this form. Several query languages, such as XQuery, have been proposed which return their results in document order. However, most recent efforts focused on query optimization have either disregarded order or proposed static schemes in which updates are not handled efficiently. Some dynamic labelling schemes have been proposed but they do not consider type information that is usually available w ...



Keywords: XML, order maintenance

19 Special issue on computational phonology: The reconstruction engine: a computer implementation of the comparative method

John B. Lowe, Martine Mazaudon

September 1994 **Computational Linguistics**, Volume 20 Issue 3

Publisher: MIT Press

Full text available:  [pdf\(2.14 MB\)](#)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)
[Publisher Site](#)

We describe the implementation of a computer program, the Reconstruction Engine (RE), which models the comparative method for establishing genetic affiliation among a group of languages. The program is a research tool designed to aid the linguist in evaluating specific hypotheses, by calculating the consequences of a set of postulated sound changes (proposed by the linguist) on complete lexicons of several languages. It divides the lexicons into a phonologically regular part and a part that devi ...

20 Translator writing systems

Jerome Feldman, David Gries

February 1968 **Communications of the ACM**, Volume 11 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(4.47 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A critical review of recent efforts to automate the writing of translators of programming languages is presented. The formal study of syntax and its application to translator writing are discussed in Section II. Various approaches to automating the postsyntactic (semantic) aspects of translator writing are discussed in Section III, and several related topics in Section IV.

Keywords: compiler compiler-compiler, generator, macroprocessor, meta-assembler, metacompiler, parser, semantics, syntactic analysis, syntax, syntax-directed, translator, translator writing system

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21 [Aspect oriented programming: A parameterized interpreter for modeling different](#)



[AOP mechanisms](#)

Naoyasu Ubayashi, Genki Moriyama, Hidehiko Masuhara, Tetsuo Tamai

 November 2005 **Proceedings of the 20th IEEE/ACM international Conference on Automated software engineering ASE '05**

Publisher: ACM Press

 Full text available: [pdf\(180.57 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a parameterized interpreter for modeling aspect-oriented mechanisms. The interpreter takes several parameters to cover different AOP mechanisms found in AspectJ, Hyper/J, and Demeter. The interpreter helps our understanding of the AOP mechanisms in two ways. First, its core part represents the common mechanical structure shared by different AOP mechanisms. Second, by reconstructing the existing AOP mechanisms and using parameters to configure the interpreter, we can illustrate the dif ...

Keywords: AOP, join point models

22 [Bioinformatics \(BIO\): An architecture for biological information extraction and representation](#)



[representation](#)

Aditya Vailaya, Peter Bluvias, Robert Kincaid, Allan Kuchinsky, Michael Creech, Annette Adler

 March 2004 **Proceedings of the 2004 ACM symposium on Applied computing SAC '04**

Publisher: ACM Press

 Full text available: [pdf\(355.71 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#)

Technological advances in biomedical research are generating a plethora of heterogeneous data at a high rate. There is a critical need for extraction, integration and management tools for information discovery and synthesis from these heterogeneous data. In this paper, we present a general architecture, called ALFA, for information extraction and representation from diverse biological data. The ALFA architecture consists of: (i) a networked, hierarchical object model for representing information ...

Keywords: bioinformatics, filtering, heterogeneous data, information representation, information retrieval, interactive text mining, software architecture, user-guided information extraction

23 Writing efficient programs

Jon Louis Bentley
January 1982 Book

Publisher: Prentice-Hall, Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

The primary task of software engineers is the cost-effective development of maintainable and useful software. There are many secondary problems lurking in that definition. One such problem arises from the term "useful": to be useful in the application at hand, software must often be efficient (that is, use little time or space). The problem we will consider in this book is building efficient software systems.


There are a number of levels at which we may confront the problem of efficient ...

24 Industrial, applications, and experience sessions: Industry 2: Decision support: The making of TPC-DS

Raghunath Othayoth, Meikel Poess

September 2006 **Proceedings of the 32nd international conference on Very large data bases VLDB '06**

Publisher: VLDB Endowment

Full text available:  [pdf\(658.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

For the last decade, the research community and the industry have used TPC-D and its successor TPC-H to evaluate performance of decision support technology. Recognizing a paradigm shift in the industry the Transaction Processing Performance Council has developed a new Decision Support benchmark, TPC-DS, expected to be released this year. From an ease of benchmarking perspective it is similar to past benchmarks. However, it adjusts for new technology and new approaches the industry has embarked on ...

25 NLH/E: a natural language help system

Walter F. Tichy, Rolf L. Adams, Lars Holter

May 1989 **Proceedings of the 11th international conference on Software engineering ICSE '89**

Publisher: ACM Press

Full text available:  [pdf\(1.15 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: artificial intelligence, caseframe parsing, help systems, natural language processing, software engineering, software reuse

26 ODR: Information retrieval 2: Fast tagging of medical terms in legal text

Christopher Dozier, Ravi Kondadadi, Khalid Al-Kofahi, Mark Chaudhary, Xi Guo

June 2007 **Proceedings of the 11th international conference on Artificial intelligence and law ICAIL '07**

Publisher: ACM Press

Full text available:  [pdf\(440.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Medical terms occur across a wide variety of legal, medical, and news corpora. Documents containing these terms are of particular interest to legal professionals operating in such fields as medical malpractice, personal injury, and product liability. This paper describes a novel method of tagging medical terms in legal, medical, and news text that is very fast and also has high recall and precision. To date, most research in medical term spotting has been confined to medical text and has appr ...

Keywords: MetaMap, UMLS, context disambiguation, medical litigation, medical terms, medical text

27 An integrated approach to engineer and enforce context constraints in RBAC environments



Mark Strembeck, Gustaf Neumann

August 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issue 3

Publisher: ACM Press

Full text available: pdf(3.06 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present an approach that uses special purpose role-based access control (RBAC) constraints to base certain access control decisions on context information. In our approach a *context constraint* is defined as a dynamic RBAC constraint that checks the actual values of one or more contextual attributes for predefined conditions. If these conditions are satisfied, the corresponding access request can be permitted. Accordingly, a *conditional permission* is an RBAC permission that is co ...

Keywords: Context-dependent access control, constraints engineering, context constraints, role-based access control

28 Tracking join and self-join sizes in limited storage



Noga Alon, Phillip B. Gibbons, Yossi Matias, Mario Szegedy

May 1999 **Proceedings of the eighteenth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '99**

Publisher: ACM Press

Full text available: pdf(1.40 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

29 Integrating security in a large distributed system



M. Satyanarayanan

August 1989 **ACM Transactions on Computer Systems (TOCS)**, Volume 7 Issue 3

Publisher: ACM Press

Full text available: pdf(2.90 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Andrew is a distributed computing environment that is a synthesis of the personal computing and timesharing paradigms. When mature, it is expected to encompass over 5,000 workstations spanning the Carnegie Mellon University campus. This paper examines the security issues that arise in such an environment and describes the mechanisms that have been developed to address them. These mechanisms include the logical and physical separation of servers and clients, support for secure communication ...

30 Code generation: Clearwater: extensible, flexible, modular code generation



Galen S. Swint, Calton Pu, Gueyoung Jung, Wenchang Yan, Younggyun Koh, Qinyi Wu, Charles Consel, Akhil Sahai, Koichi Moriyama

November 2005 **Proceedings of the 20th IEEE/ACM international Conference on Automated software engineering ASE '05**

Publisher: ACM Press

Full text available: pdf(236.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Distributed applications typically interact with a number of heterogeneous and autonomous components that evolve independently. Methodical development of such applications can benefit from approaches based on domain-specific languages (DSLs).

However, the evolution and customization of heterogeneous components introduces significant challenges to accommodating the syntax and semantics of a DSL in addition to the heterogeneous platforms on which they must run. In this paper, we address the challenge ...

Keywords: AXpect, DSL, ISG, clearwater, code generation, infopipes

31 Experience papers: experiences with open source and legacy systems: Experiences with place lab: an open source toolkit for location-aware computing

Timothy Sohn, William G. Griswold, James Scott, Anthony LaMarca, Yatin Chawathe, Ian Smith, Mike Chen

May 2006 **Proceeding of the 28th international conference on Software engineering ICSE '06**

Publisher: ACM Press

Full text available:  pdf(729.93 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Location-based computing (LBC) is becoming increasingly important in both industry and academia. A key challenge is the pervasive deployment of LBC technologies; to be effective they must run on a wide variety of client platforms, including laptops, PDAs, and mobile phones, so that location data can be acquired anywhere and accessed by any application. Moreover, as a nascent area, LBC is experiencing rapid innovation in sensing technologies, the positioning algorithms themselves, and the applications ...

Keywords: location-based computing, pervasive computing, software architecture, ubiquitous computing

32 Placing search in context: the concept revisited

January 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 1

Publisher: ACM Press

Full text available:  pdf(926.20 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Keyword-based search engines are in widespread use today as a popular means for Web-based information retrieval. Although such systems seem deceptively simple, a considerable amount of skill is required in order to satisfy non-trivial information needs. This paper presents a new conceptual paradigm for performing search in context, that largely automates the search process, providing even non-professional users with highly relevant results. This paradigm is implemented in practice in the Intelli ...


Keywords: Search, context, invisible web, semantic processing, statistical natural language processing

33 Constraints: An approach to engineer and enforce context constraints in an RBAC environment

Gustaf Neumann, Mark Strembeck

June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies SACMAT '03**


Publisher: ACM Press

Full text available:  pdf(377.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an approach that uses special purpose RBAC constraints to base certain access control decisions on context information. In our approach a *context constraint* is defined as a dynamic RBAC constraint that checks the actual values of one or


more contextual attributes for predefined conditions. If these conditions are satisfied, the corresponding access request can be permitted. Accordingly, a *conditional permission* is an RBAC permission which is constrained by one o ...

34 Distributed programming in Argus

 Barbara Liskov

March 1988 **Communications of the ACM**, Volume 31 Issue 3


Publisher: ACM Press

Full text available:  pdf(1.52 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Argus—a programming language and system developed to support the implementation and execution of distributed programs—provides mechanisms that help programmers cope with the special problems that arise in distributed programs, such as network partitions and crashes of remote nodes.

35 Technical papers: FONTE: factorizing ONTology engineering complexity

 Jorge Santos, Steffen Staab

October 2003 **Proceedings of the 2nd international conference on Knowledge capture K-CAP '03**

Publisher: ACM Press


Full text available:  pdf(123.03 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Because it is difficult to engineer a complex ontology with time, we here consider a method that allows for factorizing the complexity of the engineering process, FONTE (Factorizing ONTology Engineering complexity). FONTE divides the engineering task into building a time-less domain ontology and a temporal theory independently from each other. FONTE provides an operator \square that assembles the two independently developed ontologies into the targeted ontology. We investigate the quality of the ...

Keywords: knowledge engineering and modelling methodology, ontology engineering

36 Copyrights and access-rights: Experiences with the enforcement of access rights extracted from ODRL-based digital contracts

 Susanne Guth, Gustaf Neumann, Mark Strembeck

October 2003 **Proceedings of the 3rd ACM workshop on Digital rights management DRM '03**


Publisher: ACM Press

Full text available:  pdf(241.29 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


In this paper, we present our experiences concerning the enforcement of access rights extracted from ODRL-based digital contracts. We introduce the generalized *Contract Schema* (CoSa) which is an approach to provide a generic representation of contract information on top of rights expression languages. We give an overview of the design and implementation of the xORELInterpreter software component. In particular, the xORELInterpreter interprets digital contracts that are based on rights exp ...

37 A software engineering perspective on algorithmics

 Karsten Weihe

March 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.62 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

An algorithm component is an implementation of an algorithm which is not intended to be

a stand-alone module, but to perform a specific task within a large software package or even within several distinct software packages. Therefore, the design of algorithm components must also incorporate software-engineering aspects. A key design goal is adaptability. This goal is important for maintenance throughout a project, prototypical development, and reuse in new, unforeseen context ...

Keywords: algorithm engineering

38 Adapting virtual machine techniques for seamless aspect support

Christoph Bockisch, Matthew Arnold, Tom Dinkelaker, Mira Mezini

October 2006 **ACM SIGPLAN Notices , Proceedings of the 21st annual ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications OOPSLA '06**, Volume 41 Issue 10

Publisher: ACM Press

Full text available:  [pdf\(266.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current approaches to compiling aspect-oriented programs are inefficient. This inefficiency has negative effects on the productivity of the development process and is especially prohibitive for dynamic aspect deployment. In this work, we present how well-known virtual machine techniques can be used with only slight modifications to support fast aspect deployment while retaining runtime performance. Our implementation accelerates dynamic aspect deployment by several orders of magnitude relative to ...


Keywords: aspect weaving, aspect-oriented programming, dynamic deployment, envelope-based weaving, virtual machine support

39 At the forge: Ajax application design

Reuven M. Lerner

December 2006 **Linux Journal**, Volume 2006 Issue 152

Publisher: Specialized Systems Consultants, Inc.


Full text available:  [html\(3.75 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

40 Service discovery: Behavioral models as service descriptions

Robert J. Hall, Andrea Zisman

November 2004 **Proceedings of the 2nd international conference on Service oriented computing ICSOC '04**

Publisher: ACM Press

Full text available:  [pdf\(209.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Interface descriptions, while adequate for describing relatively simple or uniform functionality, are too abstract to properly describe entities as complex as e-commerce services or feature rich telecommunications services. The web services community has partially acknowledged this, as description languages like WSCL and OWL-S have enriched interface information with additional fragments of component semantics. In this paper, we naturally extend this progression by proposing that services be ...

Keywords: behavioral model, executable specification, execution monitoring, service discovery, validation

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Result page: [previous](#) [1](#) [2](#) [3](#)Relevance scale ☐ ☐ ☐ ☐ ☐41 [Efficient subtyping tests with PQ-encoding](#)

Joseph (Yossi) Gil, Yoav Zibin

 September 2005 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 27 Issue 5

Publisher: ACM Press

Full text available: [pdf\(475.34 KB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Given a type hierarchy, a *subtyping test* determines whether one type is a direct or indirect descendant of another type. Such tests are a frequent operation during the execution of object-oriented programs. The implementation challenge is in a space-efficient encoding of the type hierarchy that simultaneously permits efficient subtyping tests. We present a new scheme for encoding multiple- and single-inheritance hierarchies, which, in the standard benchmark hierarchies, reduces the footprint ...

Keywords: Casting, PQ, PQE, encoding, hierarchy, inheritance, partially ordered sets, subtyping, type inclusion

42 [Attacks and cryptanalysis: A natural language approach to automated cryptanalysis of two-time pads](#)

Joshua Mason, Kathryn Watkins, Jason Eisner, Adam Stubblefield

 October 2006 **Proceedings of the 13th ACM conference on Computer and communications security CCS '06**

Publisher: ACM Press

Full text available: [pdf\(230.76 KB\)](#)
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While keystream reuse in stream ciphers and one-time pads has been a well known problem for several decades, the risk to real systems has been underappreciated. Previous techniques have relied on being able to accurately guess words and phrases that appear in one of the plaintext messages, making it far easier to claim that "an attacker would never be able to do *that*." In this paper, we show how an adversary can automatically recover messages encrypted under the same keystream if only the ...

Keywords: keystream reuse, one-time pad, stream cipher

43

[Innovative Document Systems: The multivalent browser: a platform for new ideas](#)




Thomas A. Phelps, Robert Wilensky

November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering
DocEng '01****Publisher:** ACM PressFull text available: [pdf\(188.51 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Multivalent Browser is built on a architecture that separates functionality from concrete document format. Almost all functionality is made available via relatively small modules of code called behaviors that programmers can write to extend the core system. Behaviors can be as significant and powerful as parser-renderers for scanned paper, HTML, or TeX DVI; as fine-grained as hyperlinks, cookies, and the disabling of menu items; and as innovative or uncommon as in situ annotations, "lenses", ...

Keywords: annotation, architecture, digital, document, multivalent behavior, paper, scanned

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| IET CNF | IET Conference Proceeding |
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[Database and Expert Systems Applications, 2004. Proceedings. 15th International Workshop on](#)
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- ☐ **6. Extension of fuzzy Galois connection for information retrieval using a fuzzy quantifier**
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Kacprzyk, J.; Zadrozny, S.;
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Cellis, P.; Zeller, H.;
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Chu, W.W.; Hwang, A.Y.; Lee, R.-C.; Chen, Q.; Merzbacher, M.; Hecht, H.;
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Rubin, S.H.;
[Systems, Man, and Cybernetics, 1997. 'Computational Cybernetics and Simulation', 1997 IEEE Int](#)
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2002-08-01

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En

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| L6 | 59 | 5 and ("707"/\$.ccls. or "715"/\$.ccls.) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/24 07:41 |
| L7 | 201 | 2 and ("707"/\$.ccls. or "715"/\$.ccls.) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/24 07:42 |
| L8 | 65 | 1 and (teas\$6 or excerpt or summary or outline or passage or document or section or text) with ((lookup or look-up or (cross adj referenc\$5)) adj table) same query | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/24 07:42 |
| L9 | 50 | 8 and ("707"/\$.ccls. or "715"/\$.ccls.) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/24 07:43 |